From the INTERNATIONAL SEARCHING AUTHORITY PCT KOWALCHYK, KATHERINE, M. NOTIFICATION OF TRANSMITTAL OF MERCHANT & GOULD P.C. P.O. BOX 2903 THE INTERNATIONAL SEARCH REPORT AND MINNEAPOLIS, MN 55402-8844 THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION Date of mailing (day/month/year) Applicant's or agent's file reference 103201-10601 40590,000 WOU FOR FURTHER ACTION See paragraphs 1 and 4 below International filing date International application No. (day/month/year) 20 September 2007 (20.09.2007) PCT/US07/79051 DEMAND DUE: December 2,2008, as Applicant DHARMACON, INC The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. Where? Directly to the International Bureau of WIPO, 34 chemin dcs Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 338.82.70. For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not

before the expiration of 30 months from the priority date. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary

examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide,

(See notes on accompanying sheet)

Volume II, National Chapters and the WIPO Internet site.	
Name and mailing address of the ISA/ US Mail Stop PCT, Atm. ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450	Authorized officer JENNIFER PITRAY Telephone No. 5712703061
Facsimile No. (571) 273-3201	(See notes on occost

Form PCT/ISA/220 (January 2004)

From the INTERNATIONAL SEARCHING AUTHORITY						
TO: KOWALCHYK, KATHERINE, M. MERCHANT & GOULD P.C. PO. BOX 2903 MINNEAPOLIS, MN 55402-8844	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1) Date of mailing 02 SEP 2008					
Applicant's or agent's file reference	(day/month/year)					
103201-10601	FOR FURTHER ACTION Sec paragraphs 1 and 4 below					
International application No. PCT/US07/79051	International filing date (day/month/year) 20 September 2007 (20.09.2007)					
Applicant DHARMACON, INC.						
	rch report and the written opinion of the International Searching Authority					
When? The time limit for filing such amendments i search report.	is normally two months from the date of transmittal of the international					
Where? Directly to the International Bureau of WIP 1211 Geneva 20, Switzerland, Facsimile No	O, 34 chemin des Colombettes o.: (41-22) 338.82.70.					
For more detailed instructions, see the notes on the	accompanying sheet.					
The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.						
With regard to the protest against payment of (an) add	ditional fec(s) under Rule 40.2, the applicant is notified that:					
the protest together with the decision thereon has be	seen transmitted to the International Bureau together with the applicant's					
Reminders Shortly after the expiration of 18 months from the priority d Bureau. If the applicant wishes to avoid or postpone publica priority claim, must reach the International Bureau as provided	ate, the international application will be published by the International tion, a notice of withdrawal of the international application, or of the in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the completion of the					
The applicant may submit comments on an informal basis of International Bureau. The International Bureau will send a co- preliminary examination report has been or is to be established.	on the written opinion of the International Searching Authority to the opy of such comments to all designated Offices unless an international d. These comments would also be made available to the public but not					
Within 19 months from the priority date, but only in respective examination must be filed if the applicant wishes to postpone (in some Offices even later); otherwise, the applicant must, we have the applicant must, we have the designated Offices.	ct of some designated Offices, a demand for international preliminary the entry into the national phase until 30 months from the priority date rithin 20 months from the priority date, perform the prescribed acts for					
In respect of other designated Offices, the time limit of 30 mor	nths (or later) will apply even if no demand is filed within 19 months.					
See the Annex to Form PCT/IB/301 and, for details about the Volume II, National Chapters and the WIPO Internet site.	applicable time limits, Office by Office, see the PCT Applicant's Guide,					
Name and maiting address of the ISA/ US Maii Stop PCT, Attn. ISA/US Commissioner for Patents Alexandria, Virginia 22313-1450 Fassimile Po. (57)1273-3201	Authorized Officer JENNIFER PTRANSPORCE Telephone No. 5712703061 (See notes on accompanying shee					
Form PCT/ISA/220 (January 2004)	(see notes on accompanying stee					

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 103201-10601	FOR FURTHER ACTION		re applicable, item 5 below.
International application No. PCT/US07/79051	International filing date (day 20 September 2007 (20.09.2	y/month/year) 2007)	(Earliest) Priority Date (day/month/year) 29 November 2006 (29.11.2006)
Applicant DHARMACON, INC.			
Basis of the Report With regard to the language, the where regard to the international a translation of the international as translation of the standard of the standard of the standard to t	transmitted to the internation of a total of \(\frac{2}{2} \) sheets. beets, by a copy of each prior art continuous properties of the international application in the language in the international application in unrished for the purposes of inpurished for the purposes of the properties of the prope	document cited in ed out on the basis which it was file to international searc ng into account th Rule 43.6 bis(a) nee disclosed in th II)	n this report. is of: d, which is the language
5. With regard to the abstract, the text is approved as subtract the text has been established may, within one month from	ad according to Rule 38 2(h)	by this Authority	as it appears in Box No. IV. The applicant the report, submit comments to this Authority.
as selected by this		cant failed to sugg	gest a figure.

Form PCT/ISA/210 (first sheet) (April 2007)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US07/79051

nal classification and IPC					
classification symbols)					
tent that such documents are included in the fields searched					
f data base and, where practicable, search terms used)					
ropriate, of the relevant passages Relevant to claim					
2005 (11.08.2005), p.4 paragraph 21; 1187; p.41, paragraph 315. 0006 (04.05.2006), pages 2-3 and page					
See patent family annex.					
The face when the published after the International filing date or pridate and not in conflict with the application but cited to understand principle or theory underlying the invention -X. document of particular releases: the claimed invention cannot be counsilered novel or cannot be considered to involve an inventive when the document is taken alone.					
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combine being obvious to a person skilled in the art					
"O" document referring to an oral disclosure, use, exhibition or other means being obvious to a person actited in the AT "P" document published prior to the international filling date but later than the "A" document member of the same patent family relevitive date claimed					
Date of mailing of the international search report					
Authorized officer					
Authorized officer JENNIFER PITCHAMMENT JULIAN FOR Telephone No. 5712703061					
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From the INTERNATI	ONAL SEARCH	ING AUTHOR	ITY			
NTERNATIONAL SEARCHING AUTHORITY To: KOWALCHYK, KATHERINE, M. MERCHANT & GOULD P.C.		PCT				
P.O. BOX					WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY	
						(PCT Rule 43bis.1)
					Date of mailing (day/month/year)	2 SEP 2008
Applicant's	s or agent's file re	ference			FOR FURTHER A	CTION ee paragraph 2 below
103201-10	601					
	al application No.	1	nternatio	nal filing date	,,	Priority date (day/month/year)
PCT/US07	/79051	- 2	20 Septen	nber 2007 (20.		29 November 2006 (29.11.2006)
Internation	al Patent Classific	cation (IPC) or	both nati	onal classificat	tion and IPC	
	207H 21/02(2006	5.01)				
	36/23.1					
Applicant						
DHARMA	CON, INC.					
1. This c	pinion contains in	dications relati	ing to the	following iten	ns:	
\boxtimes	Box No. I	Basis of the o	pinion			
	Box No. 11	Priority				
	Box No. 111 Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
	Box No. IV	Lack of unity				
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					novelty, inventive step or industrial stement	
	Box No. VI	Certain docu	ments cit	ed		
	Box No. VII	Certain defe	ets in the	international a	pplication	
Box No. VIII Certain observations on the international application						
lf a	national Prelimin	ational prelimi	Aumor	and the choses	ade, this opinion will except that this does n IPEA has notified th y will not be so conside	be considered to be a written opinion of the not apply where the applicant chooses an c International Bureau under Rule 66.1bis(b) red.
of Fo	A a written reply to orm PCT/ISA/220	ogether, where or before the e	appropri			PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.
For	further options, se-	e Form PCT/IS	A/220.			
3. For t	further details, see	notes to Form	PCT/ISA	√220.		
Ni	d mailing address	of the ISA/US	:	Date of comp	oletion of this opinion	Authorized officer
Name an	Mail Stop PCT, At	in: ISA/US				JENNIFER FITE ALL DEM JUN
	Commissioner for I	Patents		11 August 20	008 (11.08.2008)	l // '
Engelmile	Alexandria, Virgin	ia 22313-1450 201				Telephone No. 5712703061

Form PCT/ISA/237 (cover sheet) (April 2007)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

nternational application No.	
PCT/US07/79051	

Box No. I Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of:
the international application in the language in which it was filed
a translation of the international application into, which is the language of a translation furnished for the purposes of
international search (Rules 12.3(a) and 23.1(b)). This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this
Authority under Rule 91 (Rule 4367s.1(a)) 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been established on the basis of.
a. type of material
a sequence listing
table(s) related to the sequence listing
b, format of material
on paper
in electronic form
c. time of filing/furnishing
contained in the international application as filed.
filed together with the international application in electronic form.
furnished subsequently to this Authority for the purposes of search.
·
4. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed or does not go beyond the application.
5. Additional comments:
5. Additional comments.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US07/79051

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 1. Statement Claims NONE Novelty (N) Claims 1-27 NO _____ YES Claims NONE___ Inventive step (IS) Claims 1-27 NO YES Claims 1-27 Industrial applicability (IA) Claims NONE

2. Citations and explanations:

Claims 1-27 lack novelty under PCT Article 33(2) as being anticipated by McSwiggen, et al.

Claims 1-27 lack novelty under PCT Article 33(2) as being anticipated by De Fougerolles, et al.

The claims are to siRNA-cholesterol conjugates and methods of using the conjugates. The siRNAs comprise mismatches, 2'-O-methyland 2'-F-modified nucleotides, phosphate moities, and overhangs. The conjugates comprise the siRNA linked via a 5-5-atom linker molecule to cholesterol, wherein the linkage is at the 3' end of the sense strand and wherein the siRNA further comprises a dye molecule attached to the 5'' end of the sense strand.

Both McSwiggen, et al. and De Fougerolles, et al. independently teach siRNAs comprising mismatches, 2°-O-methyl- and 2°-F-modified nucleotides, phosphate motives, and overhangs. Both McSwiggen, et al. and De Fougerolles, et al. teach conjugates comprising siRNA linked to cholesterol and dyes, wherein the linkage is at either the 3°- or the 5°-end of the sense strand. Both references teach that the siRNA conjugates exhibit improved cellular delivery over non-conjugated siRNAs.

Form PCT/ISA/237 (Box No. V) (April 2007)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US07/79051

Pox No. VII. Certain defects in the international application

	Certain defects in the					
The following	he following defects in the form or contents of the international application have been noted:					
Claim 10 is object	aim 10 is objected to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or contents thereof: the term ojungate" appears to be a misspelling.					
cojungate appe	and to on a management.					
				-		

Form PCT/ISA/237 (Box No. VII) (April 2007)